

AMENDMENTS TO THE CLAIMS

Claim 1. (Cancelled)

Claim 2. (Currently Amended) An optical repeater apparatus ~~characterized in that~~ wherein the apparatus comprises:

an input port to which a plurality of light signals multiplexed in wavelength are inputted,

a first fixed-gain optical amplifier for amplifying the wavelength-multiplexed light signals inputted through said input port with a predetermined gain,

an optical demultiplexer connected to output of said first fixed-gain optical amplifier for demultiplexing said wavelength-multiplexed light signals into a plurality of individual light signals of respective wavelengths,

one or more adjustable optical attenuators #1; ~~#n~~ for attenuating the outputs of said optical demultiplexers, respectively, by a predetermined factor,

one or more fixed-gain optical amplifiers #1; ~~#n~~ for amplifying said plurality of light signals outputted from said adjustable optical attenuators with a predetermined gain,

monitoring light branching devices connected to outputs of said one or more fixed-gain optical amplifiers #1; ~~#n~~ for extracting parts of specific monitoring light signals ~~#1; #n~~, respectively,

an optical multiplexer for multiplexing the outputs of said one or more fixed-gain optical amplifiers ~~#1, #n~~ to thereby output multiplexed light signals, and

one or more adjustable attenuator control circuits ~~#1, #n~~ for detecting output powers of said monitoring light branching devices to thereby control the attenuation factor of said optical attenuators so that each of said detected output powers assumes a constant value.

Claims 3-16 (Cancelled)